Title (en)

METHOD AND DEVICE FOR CONFIGURING A DATA TRANSMISSION SYSTEM

Title (de)

VERFAHREN UND VORRICHTUNG ZUM KONFIGURIEREN EINES DATENÜBERTRAGUNGSSYSTEMS

Title (fr)

PROCÉDÉ ET DISPOSITIF DE CONFIGURATION D'UN SYSTÈME DE TRANSMISSION DE DONNÉES

Publication

EP 3418821 A1 20181226 (EN)

Application

EP 17305746 A 20170619

Priority

EP 17305746 A 20170619

Abstract (en)

Embodiments relate to a method for configuring a data transmission system (1), executed by a configuration device (5), wherein the data transmission system (1) comprises at least one transmitter (22), at least one receiver (31), and a communication channel (4) between the transmitter and the receiver, the method comprising: - training (S1) a machine learning model (6) of the data transmission system (1), wherein the machine learning model (6) specifies at least a transmitter model (7), a channel model (8), and a receiver model (9) including a receiver neural network (10, 11), - configuring (S2) the transmitter and the receiver based on the trained machine learning model (6), then: - obtaining (S3) training data specifying a set of messages sent by the transmitter and the corresponding signals received by the receiver, - training (S4) the receiver model (9) based on the obtained training data, and - configuring (S5) the receiver based on the trained receiver model (9).

IPC 8 full level

G05B 13/04 (2006.01)

CPC (source: EP)

G05B 13/0265 (2013.01); **H04L 41/0806** (2013.01); **H04L 41/145** (2013.01); **H04L 41/16** (2013.01)

Citation (search report)

[I] US 9681332 B2 20170613 - MIN ALEXANDER W [US], et al

Cited by

US11552731B2; WO2022040048A1; WO2022040046A1; WO2022206567A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

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DOCDB simple family (application)

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